

Comparisons of Job Characteristics

Focus Occupation: Aircraft Structure, Surfaces, Rigging, and Systems Assemblers (51-2011)

Associated Occupation: Welders, Cutters, Solderers, and Brazers (51-4121)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 86

Focus Occupation: Aircraft Structure, Surfaces, Rigging, and Systems Assemblers (51-2011)

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Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Mechanical	6.8	9.5	13.9	>> Current knowledge level is likely more than sufficient
Engineering and Technology	5.7	6.4	4.3	<< Extensive education and/or training may be required
Design	5.2	6.0	8.3	>> Current knowledge level is likely more than sufficient
Building and Construction	4.0	4.9	5.4	> Current knowledge level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 76

Focus Occupation: Aircraft Structure, Surfaces, Rigging, and Systems Assemblers (51-2011)

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Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Quality Control Analysis	5.9	7.4	11.4	>> Skill level is likely more than sufficient
Troubleshooting	4.5	6.2	9.1	>> Skill level is likely more than sufficient
Equipment Maintenance	3.5	5.9	7.1	> Skill level is likely sufficient
Repairing	3.4	5.9	7.1	> Skill level is likely sufficient
Equipment Selection	3.3	5.4	7.3	>> Skill level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 88

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Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Arm-Hand Steadiness	6.8	11.4	9.6	<	Some improvement in abilities may be required
Near Vision	11.1	11.2	10.8	0	Current ability level may be sufficient
Manual Dexterity	6.5	10.3	10.8	0	Current ability level may be sufficient
Finger Dexterity	7.6	9.7	11.4	>	Current ability level is likely sufficient
Oral Expression	12.4	9.7	8.7	<	Some improvement in abilities may be required
Oral Comprehension	12.5	9.6	10.0	0	Current ability level may be sufficient
Control Precision	6.6	9.5	10.1	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 86

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Work Activities	Exclusivity of Activity
Apply cleaning solvents	41
Apply protective coating to products	84
Attach or mark identification onto products or containers	54
Braze metal parts or components together	85
Examine products or work to verify conformance to specifications	15
Fabricate, assemble, or disassemble manufactured products by hand	11
File, sand, grind, or polish metal or plastic objects	82
Identify base metals for welding	68
Identify properties of metals for repair or fabrication activities	71
Lay out machining, welding or precision assembly projects	63
Move or fit heavy objects	8
Perform safety inspections in industrial, manufacturing or repair setting	32
Read blueprints	10
Read specifications	23
Read technical drawings	7
Read work order, instructions, formulas, or processing charts	9
Signal directions or warnings to coworkers	42
Solder metal parts or components together	73
Understand technical operating, service or repair manuals	6
Use acetylene welding/cutting torch	54

Use hand or power tools	2
Use precision measuring tools or equipment	17
Use soldering equipment	44
Use spot or tack welding techniques	87
Weld together metal parts, components, or structures	54

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 83

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Tools and Technologies	Exclusivity
Computers	1
Content authoring and editing software	1
Data management and query software	1
Drafting supplies	9
Face and head protection	7
Forming tools	2
Holding and clamping tools	3
Holding and positioning and guiding systems and devices	23
Industry specific software	1
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Machine tools	7
Machinery for working wood and stone and ceramic and the like	12
Marking tools	11
Metal bending and forming machinery	17
Pneumatic tools	8
Power tools	2
Robotics	33
Rough and finishing tools	5
Safety apparel	4
Soldering and brazing and welding machinery and supplies	6
Vision protection and accessories	3
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.